

ABSTRACT OF THE DISCLOSURE

5 A piezoelectric/electrostrictive (P/E) device ~~includes~~ comprises a pair of mutually
opposing thin plate sections, a movable section, and a fixation section for supporting the
thin plate sections and the movable section; piezoelectric/electrostrictive elements
arranged on at least one thin plate sections of the pair of thin plate sections; and a hole
formed by both inner walls of the pair of thin plate sections, an inner wall of the movable
10 section, and an inner wall of the fixation section, wherein the pair of thin plate sections
are made of metal. Accordingly, it is possible to realize a long life time of the device,
increase the displacement of the movable section, and realize a high speed (realize a high
resonance frequency). Further, it is possible to improve the handling performance of the
device and the performance for attaching a part to the movable section or the
performance for fixing the device. at least one actuator section secured to thin plate
15 sections with an adhesive. The actuator section includes a multilayered member
including at least three actuator films, each of which include a P/E layer and electrode
films. One or more holes or recesses are formed in portions of the thin plate sections on
which the P/E elements are formed. The electrode films contact upper and lower
surfaces of respective P/E layers and alternately extend to opposite surfaces thereof. End
20 surface electrodes electrically connect an electrode film that contacts one of the P/E
layers and an electrode film that contacts another one of the P/E layers. The end surface
electrodes are electrically connected to terminals which are provided on a surface of an
outermost layer of the P/E layers, and which are separated from one another by a
predetermined distance.